

CLAIMS

1 1. (Original) A method for processing a source entity with a transformation
2 entity to derive a result entity, comprising:

3 executing an action set forth in a particular portion of said transformation entity, a
4 particular portion of said source entity being a subject of said action;

5 generating a particular portion of said result entity as a consequence of executing
6 said action; and

7 associating a set of history information with said particular portion of said result
8 entity, said history information comprising a reference to said particular portion of said
9 transformation entity and a reference to said particular portion of said source entity to
10 indicate that said particular portions of said transformation entity and said source entity
11 gave rise to said particular portion of said result entity.

1 2. (Original) The method of claim 1, wherein said result entity comprises a
2 result tree representation, and wherein said particular portion of said result entity
3 comprises a particular node in said result tree representation.

1 3. (Original) The method of claim 2, wherein associating said set of history
2 information with said particular portion of said result entity comprises:
3 storing said history information in said particular node of said result tree
4 representation.

1 4. (Original) The method of claim 2, further comprising:
2 displaying said result tree representation to a user.

1 5. (Original) The method of claim 2, further comprising:
2 applying an output method to said result tree representation to derive a result
3 document, said result document comprising a particular portion which corresponds to
4 said particular node of said result tree representation; and
5 displaying said result document to a user.

1 6. (Original) The method of claim 2, further comprising:
2 receiving an indication that said particular node in said result tree representation
3 has been selected;
4 accessing said history information in response to receiving said indication;
5 obtaining from said history information said reference to said particular portion of
6 said transformation entity and said reference to said particular portion of said source
7 entity; and
8 providing an indication that said particular portion of said transformation entity
9 and said particular portion of said source entity gave rise to said particular node in said
10 result tree representation.

1 7. (Original) The method of claim 6, wherein providing said indication
2 comprises:
3 displaying said particular portion of said transformation entity and said particular
4 portion of said source entity.

1 8. (Original) The method of claim 6, wherein providing said indication
2 comprises:
3 displaying said transformation entity and said source entity;
4 displaying said particular portion of said transformation entity in a different
5 manner than other portions of said transformation entity; and
6 displaying said particular portion of said source entity in a different manner than
7 other portions of said source entity.

1 9. (Original) The method of claim 1, wherein said source entity comprises a
2 source tree representation, wherein said transformation entity comprises a transformation
3 tree representation, wherein said reference to said particular portion of said source entity
4 comprises a reference to a particular node in said source tree representation, and wherein
5 said reference to said particular portion of said transformation entity comprises a
6 reference to a particular node in said transformation tree representation.

1 10. (Original) The method of claim 9, further comprising:
2 receiving an indication that said particular portion of said result entity has been
3 selected;
4 accessing said history information in response to receiving said indication;
5 obtaining from said history information said reference to said particular node of
6 said transformation tree representation and said reference to said particular node of said
7 source tree representation; and

8 providing an indication that said particular node of said transformation tree
9 representation and said particular node of said source tree representation gave rise to said
10 particular portion of said result entity.

1 11. (Original) The method of claim 10, wherein providing said indication
2 comprises:

3 displaying said particular node of said transformation tree representation and said
4 particular node of said source tree representation.

1 12. (Original) The method of claim 10, wherein providing said indication
2 comprises:

3 displaying said transformation tree representation and said source tree
4 representation;

5 displaying said particular node of said transformation tree representation in a
6 different manner than other node of said transformation tree representation; and

7 displaying said particular node of said source tree representation in a different
8 manner than other nodes of said source tree representation.

1 13. (Original) The method of claim 10, wherein said source entity further
2 comprises a source document, wherein said transformation entity further comprises a
3 transformation document, wherein said source document comprises a particular portion
4 which corresponds to said particular node in said source tree representation, wherein said
5 transformation document comprises a particular portion which corresponds to said

6 particular node in said transformation tree representation, and wherein providing said
7 indication comprises:
8 displaying said particular portion of said transformation document and said
9 particular portion of said source document.

1 14. (Original) The method of claim 10, wherein said source entity further
2 comprises a source document, wherein said transformation entity further comprises a
3 transformation document, wherein said source document comprises a particular portion
4 which corresponds to said particular node in said source tree representation, wherein said
5 transformation document comprises a particular portion which corresponds to said
6 particular node in said transformation tree representation, and wherein providing said
7 indication comprises:
8 displaying said transformation document and said source document;
9 displaying said particular portion of said transformation document in a different
10 manner than other portions of said transformation document; and
11 displaying said particular portion of said source document in a different manner
12 than other portions of said source document.

1 15. (Original) The method of claim 1, wherein said source entity comprises
2 an XML (eXtensible markup language) document, and said transformation entity
3 comprises a stylesheet.

1 16-20 Canceled

1 21. (Original) An apparatus for processing a source entity with a
2 transformation entity to derive a result entity, comprising:
3 a mechanism for executing an action set forth in a particular portion of said
4 transformation entity, a particular portion of said source entity being a subject of said
5 action;
6 a mechanism for generating a particular portion of said result entity as a
7 consequence of executing said action; and
8 a mechanism for associating a set of history information with said particular
9 portion of said result entity, said history information comprising a reference to said
10 particular portion of said transformation entity and a reference to said particular portion
11 of said source entity to indicate that said particular portions of said transformation entity
12 and said source entity gave rise to said particular portion of said result entity.

1 22. (Original) The apparatus of claim 21, wherein said result entity comprises
2 a result tree representation, and wherein said particular portion of said result entity
3 comprises a particular node in said result tree representation.

1 23. (Original) The apparatus of claim 22, wherein the mechanism for
2 associating said set of history information with said particular portion of said result entity
3 comprises:
4 a mechanism for storing said history information in said particular node of said
5 result tree representation.

1 24. (Original) The apparatus of claim 22, further comprising:

2 a mechanism for displaying said result tree representation to a user.

1 25. (Original) The apparatus of claim 22, further comprising:

2 a mechanism for applying an output method to said result tree representation to

3 derive a result document, said result document comprising a particular portion which

4 corresponds to said particular node of said result tree representation; and

5 a mechanism for displaying said result document to a user.

1 26. (Original) The apparatus of claim 22, further comprising:

2 a mechanism for receiving an indication that said particular node in said result

3 tree representation has been selected;

4 a mechanism for accessing said history information in response to receiving said

5 indication;

6 a mechanism for obtaining from said history information said reference to said

7 particular portion of said transformation entity and said reference to said particular

8 portion of said source entity; and

9 a mechanism for providing an indication that said particular portion of said

10 transformation entity and said particular portion of said source entity gave rise to said

11 particular node in said result tree representation.

1 27. (Original) The apparatus of claim 26, wherein the mechanism for

2 providing said indication comprises:

3 a mechanism for displaying said particular portion of said transformation entity

4 and said particular portion of said source entity.

1 28. (Original) The apparatus of claim 26, wherein the mechanism for
2 providing said indication comprises:
3 a mechanism for displaying said transformation entity and said source entity;
4 a mechanism for displaying said particular portion of said transformation entity in
5 a different manner than other portions of said transformation entity; and
6 a mechanism for displaying said particular portion of said source entity in a
7 different manner than other portions of said source entity.

1 29. (Original) The apparatus of claim 21, wherein said source entity
2 comprises a source tree representation, wherein said transformation entity comprises a
3 transformation tree representation, wherein said reference to said particular portion of
4 said source entity comprises a reference to a particular node in said source tree
5 representation, and wherein said reference to said particular portion of said
6 transformation entity comprises a reference to a particular node in said transformation
7 tree representation.

1 30. (Original) The apparatus of claim 29, further comprising:
2 a mechanism for receiving an indication that said particular portion of said result
3 entity has been selected;
4 a mechanism for accessing said history information in response to receiving said
5 indication;

6 a mechanism for obtaining from said history information said reference to said
7 particular node of said transformation tree representation and said reference to said
8 particular node of said source tree representation; and
9 a mechanism for providing an indication that said particular node of said
10 transformation tree representation and said particular node of said source tree
11 representation gave rise to said particular portion of said result entity.

1 31. (Original) The apparatus of claim 30, wherein the mechanism for
2 providing said indication comprises:
3 a mechanism for displaying said particular node of said transformation tree
4 representation and said particular node of said source tree representation.

1 32. (Original) The apparatus of claim 30, wherein the mechanism for
2 providing said indication comprises:
3 a mechanism for displaying said transformation tree representation and said
4 source tree representation;
5 a mechanism for displaying said particular node of said transformation tree
6 representation in a different manner than other node of said transformation tree
7 representation; and
8 a mechanism for displaying said particular node of said source tree representation
9 in a different manner than other nodes of said source tree representation.

1 33. (Original) The apparatus of claim 30, wherein said source entity further
2 comprises a source document, wherein said transformation entity further comprises a

3 transformation document, wherein said source document comprises a particular portion
4 which corresponds to said particular node in said source tree representation, wherein said
5 transformation document comprises a particular portion which corresponds to said
6 particular node in said transformation tree representation, and wherein the mechanism for
7 providing said indication comprises:

8 a mechanism for displaying said particular portion of said transformation
9 document and said particular portion of said source document.

1 34. (Original) The apparatus of claim 30, wherein said source entity further
2 comprises a source document, wherein said transformation entity further comprises a
3 transformation document, wherein said source document comprises a particular portion
4 which corresponds to said particular node in said source tree representation, wherein said
5 transformation document comprises a particular portion which corresponds to said
6 particular node in said transformation tree representation, and wherein the mechanism for
7 providing said indication comprises:

8 a mechanism for displaying said transformation document and said source
9 document;

10 a mechanism for displaying said particular portion of said transformation
11 document in a different manner than other portions of said transformation document; and

12 a mechanism for displaying said particular portion of said source document in a
13 different manner than other portions of said source document.

1 35. (Original) The apparatus of claim 21, wherein said source entity
2 comprises an XML (eXtensible markup language) document, and said transformation
3 entity comprises a stylesheet.

1 36-40 Canceled

1 41. (Original) A computer readable medium comprising instructions which,
2 when executed by one or more processors, cause the one or more processors to process a
3 source entity with a transformation entity to derive a result entity, said computer readable
4 medium comprising:

5 instructions for causing one or more processors to execute an action set forth in a
6 particular portion of said transformation entity, a particular portion of said source entity
7 being a subject of said action;

8 instructions for causing one or more processors to generate a particular portion of
9 said result entity as a consequence of executing said action; and

10 instructions for causing one or more processors to associate a set of history
11 information with said particular portion of said result entity, said history information
12 comprising a reference to said particular portion of said transformation entity and a
13 reference to said particular portion of said source entity to indicate that said particular
14 portions of said transformation entity and said source entity gave rise to said particular
15 portion of said result entity.

1 42. (Original) The computer readable medium of claim 41, wherein said
2 result entity comprises a result tree representation, and wherein said particular portion of
3 said result entity comprises a particular node in said result tree representation.

1 43. (Original) The computer readable medium of claim 42, wherein the
2 instructions for causing one or more processors to associate said set of history
3 information with said particular portion of said result entity comprises:
4 instructions for causing one or more processors to store said history information
5 in said particular node of said result tree representation.

1 44. (Original) The computer readable medium of claim 42, further
2 comprising:
3 instructions for causing one or more processors to display said result tree
4 representation to a user.

1 45. (Original) The computer readable medium of claim 42, further
2 comprising:
3 instructions for causing one or more processors to apply an output method to said
4 result tree representation to derive a result document, said result document comprising a
5 particular portion which corresponds to said particular node of said result tree
6 representation; and
7 instructions for causing one or more processors to display said result document to
8 a user.

1 46. (Original) The computer readable medium of claim 42, further
2 comprising:
3 instructions for causing one or more processors to receive an indication that said
4 particular node in said result tree representation has been selected;
5 instructions for causing one or more processors to access said history information
6 in response to receiving said indication;
7 instructions for causing one or more processors to obtain from said history
8 information said reference to said particular portion of said transformation entity and said
9 reference to said particular portion of said source entity; and
10 instructions for causing one or more processors to provide an indication that said
11 particular portion of said transformation entity and said particular portion of said source
12 entity gave rise to said particular node in said result tree representation.

1 47. (Original) The computer readable medium of claim 46, wherein the
2 instructions for causing one or more processors to provide said indication comprises:
3 instructions for causing one or more processors to display said particular portion
4 of said transformation entity and said particular portion of said source entity.

1 48. (Original) The computer readable medium of claim 46, wherein the
2 instructions for causing one or more processors to provide said indication comprises:
3 instructions for causing one or more processors to display said transformation
4 entity and said source entity;

5 instructions for causing one or more processors to display said particular portion
6 of said transformation entity in a different manner than other portions of said
7 transformation entity; and
8 instructions for causing one or more processors to display said particular portion
9 of said source entity in a different manner than other portions of said source entity.

1 49. (Original) The computer readable medium of claim 41, wherein said
2 source entity comprises a source tree representation, wherein said transformation entity
3 comprises a transformation tree representation, wherein said reference to said particular
4 portion of said source entity comprises a reference to a particular node in said source tree
5 representation, and wherein said reference to said particular portion of said
6 transformation entity comprises a reference to a particular node in said transformation
7 tree representation.

1 50. (Original) The computer readable medium of claim 49, further
2 comprising:
3 instructions for causing one or more processors to receive an indication that said
4 particular portion of said result entity has been selected;
5 instructions for causing one or more processors to access said history information
6 in response to receiving said indication;
7 instructions for causing one or more processors to obtain from said history
8 information said reference to said particular node of said transformation tree
9 representation and said reference to said particular node of said source tree
10 representation; and

11 instructions for causing one or more processors to provide an indication that said
12 particular node of said transformation tree representation and said particular node of said
13 source tree representation gave rise to said particular portion of said result entity.

1 51. (Original) The computer readable medium of claim 50, wherein the
2 instructions for causing one or more processors to provide said indication comprises:
3 instructions for causing one or more processors to display said particular node of
4 said transformation tree representation and said particular node of said source tree
5 representation.

1 52. (Original) The computer readable medium of claim 50, wherein the
2 instructions for causing one or more processors to provide said indication comprises:
3 instructions for causing one or more processors to display said transformation tree
4 representation and said source tree representation;
5 instructions for causing one or more processors to display said particular node of
6 said transformation tree representation in a different manner than other node of said
7 transformation tree representation; and
8 instructions for causing one or more processors to display said particular node of
9 said source tree representation in a different manner than other nodes of said source tree
10 representation.

1 53. (Original) The computer readable medium of claim 50, wherein said
2 source entity further comprises a source document, wherein said transformation entity
3 further comprises a transformation document, wherein said source document comprises a

4 particular portion which corresponds to said particular node in said source tree
5 representation, wherein said transformation document comprises a particular portion
6 which corresponds to said particular node in said transformation tree representation, and
7 wherein the instructions for causing one or more processors to provide said indication
8 comprises:

9 instructions for causing one or more processors to display said particular portion
10 of said transformation document and said particular portion of said source document.

1 54. (Original) The computer readable medium of claim 50, wherein said
2 source entity further comprises a source document, wherein said transformation entity
3 further comprises a transformation document, wherein said source document comprises a
4 particular portion which corresponds to said particular node in said source tree
5 representation, wherein said transformation document comprises a particular portion
6 which corresponds to said particular node in said transformation tree representation, and
7 wherein the instructions for causing one or more processors to provide said indication
8 comprises:

9 instructions for causing one or more processors to display said transformation
10 document and said source document;

11 instructions for causing one or more processors to display said particular portion
12 of said transformation document in a different manner than other portions of said
13 transformation document; and

14 instructions for causing one or more processors to display said particular portion
15 of said source document in a different manner than other portions of said source
16 document.

1 55. (Original) The computer readable medium of claim 41, wherein said
2 source entity comprises an XML (eXtensible markup language) document, and said
3 transformation entity comprises a stylesheet.

1 56-60 Canceled